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Datasheet for 609-1103

Human IgG Fc Antibody

Overview

Description:	Goat Anti-Human IgG Fc Antibody - 609-1103
Item No.:	609-1103
Size:	5 mg
Applications:	Dot Blot, ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgG F(c) generated in goat detects Human F(c). A proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of human IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. F(c) Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Goat Anti Human IgG Fc Antibody, Goat Anti-Human IgG F(c) Antibody, Goat Anti-Human IgG Fc Fragment Antibody
Host Species:	Goat
Specificity:	IgG Fc
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
Immunogen:	Human IgG F(c) fragment

Purity/Specificity:	Anti-Human IgG F(c) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Human IgG, Human IgG F(c) and Human Serum. No reaction was observed against Human IgG F(ab).

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Goat Anti-Human IgG F(c) Antibody has been tested by ELISA and dot blot and is suitable for western blot, immunohistochemistry, or immunoassays where specificity to the immunoglobulin Fc region is desired. Optimal concentrations in immunoassays should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
IHC:	1:1,000 - 1:5,000
WB:	1:10,000 - 1:50,000

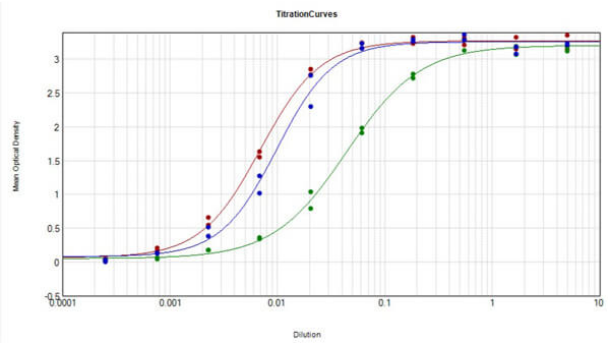
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	5.17 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA Results of Goat Anti-Human IgG F(c) Antibody tested against purified Human IgG F(c). Each well was coated in duplicate with 1.0 µg of Human IgG F(c) (p/n 009-0103) [Red Line], Human IgG Fab (p/n 009-0105) [Green Line], Human IgG (p/n 009-0102) [Blue Line]. The working dilution is 1:143,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugation Stabilizer (p/n MB-076), Donkey Anti-Goat IgG HRP conjugated (p/n 605-703-125), and TMB substrate (p/n TMBE-1000).

References

- Zhou W et al. Multiple sclerosis plasma IgG aggregates induce complement-dependent neuronal apoptosis. *Cell Death Dis.* (2023)
- Lima NS et al. Primary exposure to SARS-CoV-2 variants elicits convergent epitope specificities, immunoglobulin V gene usage and public B cell clones. *Nat Commun.* (2022)
- Zhou W et al. Phenotype and Neuronal Cytotoxic Function of Glioblastoma Extracellular Vesicles. *Biomedicines.* (2022)
- Prabhakaran M et al. A sensitive method to quantify HIV-1 antibodies in mucosal samples. *J immunol Methods.* (2021)

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